## WHAT IS CLAIMED IS:

	1	1.	A method for updating a program in a data processing system comprising the
	2	steps o	of:
	3		requesting a trusted platform module ("TPM") to perform a signature verification
	4	of an u	ipdate to the program;
	5		the TPM performing the signature verification of the update to the program;
,	6		if the signature verification of the update to the program is successful, unlocking-
	7	a mem	nory unit storing the program; and
	8		modifying the program with the update to the program in response to the
The flows and the flows that it	9	unlock	king of the memory unit storing the program.
# 1	1	2.	The method as recited in claim 1, further comprising the step of:
	2		locking the memory unit after the modifying step.
i L	1	3.	The method as recited in claim 2, wherein the locking step is performed by the
	2	TPM.	

. ...7.

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1	4. A computer program product adaptable for storage on a computer readable
2	medium and operable for updating a BIOS stored in a flash memory in a data processing
3	system, comprising:
4	a BIOS update application program receiving an updated BIOS image;
5	the BIOS update application requesting a TPM to perform a signature verification
6	of the updated BIOS image;

perform the signature verification of the updated BIOS image; and

the TPM program performing the signature verification of the updated BIOS image and posting a result of the signature verification of the updated BIOS image to the BIOS update application.

a TPM program receiving the request from the BIOS update application to

7.

5.	The computer program product as recited in claim 4, further comprising:				
	if the result of the signature verification of the updated BIOS image determine				
that	the updated BIOS image is authentic, then the TPM program unlocks the flash				
memory; and					
	the BIOS update application modifies the BIOS with the updated BIOS image.				
	en e				
6.	The computer program product as recited in claim 5, further comprising:				

The computer program product as recited in claim 6, further comprising:

that the updated BIOS image is not authentic, then an error message is output.

if the result of the signature verification of the updated BIOS image determines

1	8. A data processing system having circuitry for updating a BIOS stored in a flash
2	memory in the data processing system, comprising:
3	input circuitry for receiving an updated BIOS image;
4	circuitry for requesting a TPM to perform a signature verification of the updated
5	BIOS image;
6	the TPM performing the signature verification of the updated BIOS image;
7 .	the TPM unlocking the flash memory if the signature verification of the updated
8	BIOS image determines that the updated BIOS image is authentic; and
9	circuitry for modifying the BIOS with the updated BIOS image.

- 9. The system as recited in claim 8, further comprising:
  circuitry for locking the flash memory after the BIOS is modified with the
  updated BIOS image.
- 1 10. The system as recited in claim 8, further comprising:
  2 .....circuitry for outputting an error if the signature verification of the updated BIOS.
  3 image determines that the updated BIOS image is not authentic.